



Ministry of
Natural
Resources

Hon. Alan W. Pope
Minister

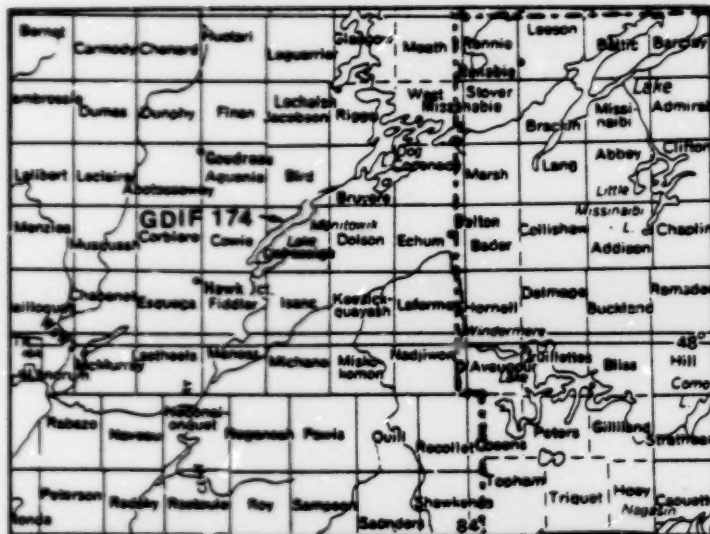
John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO
GDIF 174

DEBASSIGE TOWNSHIP

DISTRICT OF ALGOMA

Compiled by the staff of
the Resident Geologist's Office
Sault Ste. Marie



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL

SI Unit Multiplied by Gives

1 mm 0.039 37 inches
1 cm 0.393 70 inches
1 m 3.280 84 feet
1 m 0.049 709 7 chains
1 km 0.621 371 miles (statute)

CONVERSION FROM IMPERIAL TO SI

Imperial Unit Multiplied by Gives

LENGTH

1 inch 25.4 mm
1 inch 2.54 cm
1 foot 0.304 8 m
1 chain 20.116 8 m
1 mile (statute) 1.609 344 km

AREA

1 cm² 0.155 0 square inches
1 m² 10.763 9 square feet
1 km² 0.386 10 square miles
1 ha 2.471 054 acres

1 square inch 6.451 6 cm²
1 square foot 0.092 903 04 m²
1 square mile 2.589 988 km²
1 acre 0.404 685 6 ha

VOLUME

1 cm³ 0.061 02 cubic inches
1 m³ 35.314 7 cubic feet
1 m³ 1.308 0 cubic yards

1 cubic inch 16.387 064 cm³
1 cubic foot 0.028 316 85 m³
1 cubic yard 0.764 555 m³

CAPACITY

1 L 1.759 755 pints
1 L 0.879 877 quart
1 L 0.219 969 gallons

1 pint 0.568 261 L
1 quart 1.136 522 L
1 gallon 4.546 090 L

MASS

1 g 0.035 273 96 ounces (avdp)
1 g 0.032 150 75 ounces (troy)
1 kg 2.204 62 pounds (avdp)
1 kg 0.001 102 3 tons (short)
1 t 1.102 311 tons (short)
1 kg 0.000 984 21 tons (long)
1 t 0.984 206 5 tons (long)

1 ounce (avdp) 28.349 523 g
1 ounce (troy) 31.103 476 8 g
1 pound (avdp) 0.453 592 37 kg
1 ton (short) 907.184 74 kg
1 ton (short) 0.907 184 74 t
1 ton (long) 1016.046 908 8 kg
1 ton (long) 1.016 046 908 8 t

CONCENTRATION

1 g/t 0.029 166 6 ounce (troy)/ton (short)
1 g/t 0.583 333 33 pennyweights/ton (short)

1 ounce (troy)/ton (short) 34.285 714 2 g/t
1 pennyweight/ton (short) 1.714 285 7 g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short) 20.0 pennyweights/ton (short)
1 pennyweight/ton (short) 0.05 ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Date	Initial
1	Resident Geologist's Office Files	Yes	L. A.
2	Assessment Files Research Office, Toronto	"	A. F. R. O.
3	ODM General Index; 7 volumes	"	L. A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	"	"
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	"	"
6	ODM Industrial Mineral Reports	No	"
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	"	"
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	"	"
9	Newspaper Clippings File	Yes	"
10	GSC Index to Publications	No	"
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	"	"
12	OGS Index Maps	"	"
13	Source Mineral Deposit Records (O.G.S.)	"	"
14	Author - Subject Articles File	"	"
15	Miscellaneous Papers: ODM & OGS	"	"
16	ODM Geological Circulars: OGS Study Series	"	"
17	ODM Preliminary Reports: ODM Bulletins	"	"
18	ODM - OGS Open File Reports	Yes	"
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	"
20	OGS Aggregate Resources Inventory Papers	N. A.	"
21	OGS Mineral Potential Maps	Yes	"
22	Algoma Central Railway Maps	Yes	"

METALS AND MINERALS REFERENCES LIST

Δ anh.....	Anthydrite	Δ fu.....	Fuchsite	Δ Ni.....	Nickel	Δ st.....	Stone
Δ ank.....	Ankerite	Δ gn.....	Galenite	Δ Nb.....	Niobium	Δ tlc.....	Talc
Δ anna.....	Annabergite	Δ gl.....	Garnet	Δ Pd.....	Palladium	Δ Te.....	Tellurium
Δ ap.....	Apatite	Δ go.....	Goethite	Δ peat.....	Pearl	Δ td.....	Tetradrite
Δ arg.....	Argentite	Δ Au.....	Gold	Δ pent.....	Pentlandite	Δ th.....	Thorite
Δ As.....	Arsenic	Δ gl.....	Graphite	Δ Pt.....	Platinum	Δ Th.....	Thorium
Δ asp.....	Arsenopyrite	Δ gl.....	Gravel	Δ py.....	Pyrite	Δ thuc.....	Thucholite
Δ asb.....	Asbestos	Δ gyp.....	Gypsum	Δ pvl.....	Pyrochlore	Δ ti.....	Titanite
Δ ba.....	Berite	Δ hem.....	Hematite	Δ pvl.....	Pyrochlore	Δ Ti.....	Titanium
Δ ba.....	Berry	Δ il.....	Ilmenite	Δ po.....	Pyrrhotite	Δ tour.....	Tourmaline
Δ Bi.....	Blennite	Δ Fe.....	Iron	Δ q.....	Quartz	Δ trap.....	Trap rock
Δ bn.....	Bornite	Δ IF.....	Iron Formation	Δ qcv.....	Quartz carbonate vein	Δ W.....	Tungsten
Δ bran.....	Brammerite	Δ jas.....	Jasper	Δ ra.....	Radioactive minerals	Δ uran.....	Uraninite
Δ bruc.....	Brucite	Δ keol.....	Kaolinite (kaolin)	Δ RE.....	Rare Earths	Δ U.....	Uranium
Δ Cd.....	Cadmium	Δ ky.....	Kyanite	Δ sd.....	Sand	Δ verm.....	Vermiculite
Δ calc.....	Calcite	Δ Pb.....	Lead	Δ sgl.....	Sand and gravel	Δ Y.....	Yttrium
Δ carb.....	Carbonate	Δ lim.....	Limonite	Δ ss.....	Sandstone	Δ Zn.....	Zinc
Δ cel.....	Celestite	Δ Li.....	Lithium	Δ scap.....	Scapolite	Δ zr.....	Zircon
Δ cc.....	Chalcocite	Δ mgt.....	Magnetite	Δ shes.....	Scheelite		
Δ cp.....	Chalcophyllite	Δ mag.....	Magnetite	Δ serp.....	Serpentine		
Δ ch.....	Chert	Δ mc.....	Malachite	Δ sh.....	Shale		
Δ clay.....	Clay	Δ Mn.....	Manganese	Δ sid.....	Siderite		
Δ Co.....	Cobalt	Δ mb.....	Manganese	Δ si.....	Silica		
Δ cob.....	Cobaltite	Δ mar.....	Marcasite	Δ Ag.....	Silver		
Δ cb.....	Columbite	Δ ma.....	Merl	Δ sl.....	Slate		
Δ Cu.....	Copper	Δ mi.....	Mica	Δ sm.....	Smaltite		
Δ cor.....	Corundum	Δ ml.....	Millerite	Δ sod.....	Sodalite		
Δ dol.....	Dolomite	Δ mo.....	Molybdenite	Δ spec.....	Spicularite		
Δ ep.....	Epidote	Δ Mo.....	Molybdenum	Δ sp.....	Sphalerite		
Δ ery.....	Erythrite	Δ mon.....	Monazite	Δ spd.....	Spodumene		
Δ fel.....	Feldspar	Δ ne.....	Nephelite (nepheline)	Δ staur.....	Staurolite		
Δ fl.....	Fluorite (fluorapatite)	Δ nc.....	Nicotite	Δ stib.....	Stibnite		

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
A	Smith-Travers-Laforest Occurrence	lim,py,cp		MDC 5, p.29 MDC 12, p.107	-file Debassige 0011-D1 -Janes (1952,p.57)
B	Hamilton (Sweet) Range Occurrence	IF		MDC 11, p.48-49	-OGS Map P.184 -GSC, 1926, Mem.147, p. 155-57
C	Unnamed Occurrence	Cu		MDC 12, p.106	-file Debassige 0011-A1
D	Unnamed Occurrence	Cu		MDC 12, p.107	-showing No. 55 on ACR Map -file Debassige 0011-A1
E	Unnamed Occurrence	Cu		MDC 12, p.107	-showing No. 56 on ACR Map -file Debassige 0011-A1
F	Unnamed Occurrence	Cu		MDC 12, p.107	-showing No. 57 on ACR Map -file Debassige 0011-A1
G	Dingman's Claim	Au,py,po,gn			-OGS Map P.640 -OBM Vol. VII, pt. II, p.189

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	Sampling		
1.	P.M.X. Inc. (Debassige 0010)							73												
2.	Algoma Central Railway MacIntosh, J.A. (Debassige 0011-A1)							62										62		
3.	Acme Gas & Oil Co.Ltd. (Debassige 0011-B1)				67			67												
4.	Jalore Mining Co. Ltd. (Debassige 0011-D1) (Aguonie 0010)	51						52												
5.	Hitchcock, C.H. Smith & Travers Co.Ltd. (Debassige 0011-E1)			18		18		18										18		
6.	Canadian Pyrites Co. (Debassige 0012-A1)							67												
7.	Algoma Steel Corp. Ltd. (Debassige 0012-B1) (Debassige 0013-B1)							82				81	81							

GD11 FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
8.	Algoma Steel Corp. Ltd. (Debassige 0012-C1) (Debassige 0013-A1)							82				81	81					
9.	Algoma Steel Corp. Ltd. (Debassige 0014) (Debassige 0015)							81 82				81	81					
10.	Probisher Limited Hopkins Exploration Consultants (Dolson 0015)								55	55								
11.	Talisman Mines Ltd. (Dolson 0014-B1)							68	55	55	55-same	survey	as in file	Dolson 0015				
12.	Umex (Cowie 0014-A1)									74								

GDIF FORM NO. 1

DRILLHOLE SUMMARY		Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization ^(a) Noted in Log	Assay Data Included for
Map Drilling Location Number										
1.		Acme Gas & Oil Co. Ltd.	MAN-3	1967	west	-60°	7.0	102.0	q, py	
2.		Acme Gas & Oil Co. Ltd.	MAN-4	1967	west	-60°	8.0	111.0	py, po, qv	
3.		Acme Gas & Oil Co. Ltd.	MAN-5	1967	west	-55°	14.0	142.0	q, gf, py, po	

GOLF FORM NO. 3

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								

AIRBORNE GEOPHYSICAL SURVEY DATA					
No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
10	-by Aeromagnetic Surveys -for Frobisher Ltd. (Hopkins Exploration Consultants) -1955	-duo-frequency electromagnetic -magnetometer	500'	N60°E	1000 ft.
12	-by ? -for Umex Corporation Ltd. -1974	-airborne electromagnetic survey	?	N - S	660 ft.?

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
1.	Lake Sediment	Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, U, F	OGS-GSC 1979	OGS OFR 5267

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sault Ste. Marie

Multi-Minerals Ltd.

Talisman Mines Ltd.

ODM GENERAL INDEX SEARCH

Words searched:

Debassige Township
 Township 26, Range 25
 Manitowik Lake (Manitouwick L.)
 Boisey Cr.
 Boisey Lake
 Dingman Lake
 Dingman, N.J.

Index Volume	Listing:	Report Volume	Part	Page
I	Dingman, N.J. Gold mining, Manitouwick Lake, License to	VIII VII VIII		101 103 103
	Manitouwick Lake Description Gold, prospecting Lead Map, sketch Rocks on and near	VII VII VII XV XV	 i i	 189,190 189 189 203 201,202
II	No listings			
III	No listings			
IV	No listings			
V	No listings			
VI	No listings			
VII	No listings			
VIII	No listings			

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES				Reference	Map Scales and/or Report Pages
Author	Date	Title			
Milne, V.G., et al	1972	Manitouwadge-Wawa Sheet		OGS Map 2220	1" to 4 mi.
Algoma Central Railway	1964	Manitowik Lake-Lochalsh		Map 42C 1&8	1" to 1 mi.
ODM - GSC	1963	Aeromagnetic Map: Manitowik Lake		Map 2206G	1" to 1 mi.
Springer, Janet	1977	Ontario Mineral Potential, White River Sheet, Districts of Algoma and Thunder Bay		OGS Prelim. Map P.1519	1:250,000
Gartner, J.F. McQuay, D.F.	1979	Goudreau Area; Northern Ontario Geology Terrain Study		NOEGTS Study 73 with map 5097	14 pages 1:100,000
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance Data Eastern Shore Lake Superior.		OGS Open File Rpt. 5267 and 16 maps	83 pages 1:250,000
Leahy, E.J., Rupert, R.J., Giblin, P.E., & Giguere, J.F.	1971	Wawa Sheet		ODM Prelim. Map Map P. 640	1" to 2 mi.
Goodwin, A.M.	1963	Michipicoten Area, District of Algoma, Ontario		ODM Prelim. Map P. 184	1" to 2 mi.
Janes, T.H.	1952	Sulphur and Pyrites in Canada		Can. Mines Branch Mem. Series No. 118	p.57

GDIF FORM NO.9

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Collins, W.H., Quirke, T.T., and Thomson, Ellis	1926	Michipicoten Iron Ranges		GSC Mem. 147, see map 2050	p.155-57 1" to 1 mi.

NOTES AND ADDENDA

Debassige Township was formerly called Township 26, Range 25.



DEBASSIGE TOWNSHIP

MAPS NOT

FILMED

CARTES

OMISES